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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,349	03/28/2002	Jan Dessen	KSN0007	8754

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EXAMINER

LEON, EDWIN A

ART UNIT

PAPER NUMBER

2833

DATE MAILED: 08/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/701,349

Applicant(s)

DESSEIN ET AL.

Examiner

Edwin A. León

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 March 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☒ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: There are inconsistencies in the Title of the invention between the Declaration, the Specification and the PCT application.

Drawings

2. Figures 1-2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

(a) TITLE OF THE INVENTION.

(b) CROSS-REFERENCE TO RELATED APPLICATIONS.

(c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR
DEVELOPMENT.

(d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A
COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer
program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)),
and tables having more than 50 pages of text are permitted to be
submitted on compact discs.) or
REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).
"Microfiche Appendices" were accepted by the Office until March 1, 2001.)

(e) BACKGROUND OF THE INVENTION.

(1) Field of the Invention.

(2) Description of Related Art including information disclosed under 37
CFR 1.97 and 1.98.

- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A

“Sequence Listing” is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required “Sequence Listing” is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Scholtholt (European Patent No. 0 121 224). With regard to Claims 1, 3 and 6, Applicant's admitted prior art discloses a connector (1) for RF coaxial lines (3) comprising two connector halves for establishing contact with an outer conductor of the RF coaxial line (3) by means of an insulation displacement

connection with at least one cutting edge (2) arranged on each connector half, wherein two connector halves are arranged on the RF line (3). See Figs. 1-2.

Applicant's admitted prior art doesn't show the cutting edges being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor and, after penetration of an outer insulation of the RF coaxial line, establish a cold- welding type connection with the outer conductor on an end face and at least one adjacent side face thereof, and the cutting edges, in case of a change in distance of their end faces with respect to each other, slide on the outer conductor without a gap being formed between the outer conductor and the cutting edges, wherein the connector has a plurality of pairs of cutting edges which are arranged symmetrically with respect to a plane extending along the longitudinal axial direction of the outer conductor and the cutting edge pairs overlapping each other.

Scholtholt discloses an IDC connector (1) having cutting edges (6,7) being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor (14) and, after penetration of an outer insulation (15) of the RF coaxial line (14), establish a cold- welding type connection with the outer conductor (15) on an end face (3) and at least one adjacent side face (4) thereof, and the cutting edges (6,7), in case of a change in distance of their end faces (3,4) with respect to each other, slide on the outer conductor (15) without a gap being formed between the outer conductor (15) and the cutting edges (6,7), and the cutting edge pairs (6,7) overlapping each other. See Figs. 1-2, and 6-7.

Thus, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the connector of the Applicant's admitted prior art by including the cutting edges being arranged opposite each other in staggered manner in the longitudinal axial direction of the outer conductor and, after penetration of an outer insulation of the RF coaxial line, establish a cold- welding type connection with the outer conductor on an end face and at least one adjacent side face thereof, and the cutting edges, in case of a change in distance of their end faces with respect to each other, slide on the outer conductor without a gap being formed between the outer conductor and the cutting edges, wherein the connector has a plurality of pairs of cutting edges which are arranged symmetrically with respect to a plane extending along the longitudinal axial direction of the outer conductor and the cutting edge pairs overlapping each other as taught in Scholtholt to enable the connector to accept wider cables without risking damages to the insulation displacement connection.

With regard to Claim 2, Applicant's admitted prior art discloses the connector (1) having a plurality of pairs of cutting edges (2) arranged symmetrically with respect to a plane extending perpendicularly to the longitudinal axial direction of the outer conductor. See Figs. 1-2.

With regard to Claim 4, Applicant's admitted prior art discloses a base plate (4) formed on its longitudinal side with lugs (5) extending substantially perpendicularly thereto, with one cutting edge (2) pair each being arranged substantially perpendicularly thereto and extending away therefrom towards the outer conductor. See Figs. 1-2.

With regard to Claim 5, Applicant's admitted prior art discloses at least two lugs (5) each on both longitudinal sides of the base plate (4), the lugs (5) having cutting edge (2) pairs with different axial distances of the cutting edges (2). See Figs. 1-2.

With regard to Claim 7, Applicant's admitted prior art an electrical contact (1) for making connection to a coaxial cable (3) outer conductor, where the coaxial cable (3) is comprised of an inner signal conductor, an inner core surrounding the signal conductor, conductive shielding surrounding the inner core and outer insulation surrounding the inner core, the contact (1) comprising at least one upstanding side edge portion (5) formed by first and second portions (2), the first and second portions (2) have side faces (side of 2) generally aligned along a vertical axis. See Figs. 1-2.

Applicant's admitted prior art doesn't show end faces which are axially staggered in an axial direction of the cable, the side faces being profiled for cutting through the outer insulation and the end faces trapping the conductive shielding therebetween.

Scholtholt discloses an electrical contact (1) having end faces (3,4) which are axially staggered in an axial direction of a cable (14), side faces (6,7) being profiled for cutting through the outer insulation (15) and the end faces (3,4) trapping the conductive shielding (16) therebetween. See Figs. 1-2, and 6-7.

Thus, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the contact of the Applicant's admitted prior art by including end faces which are axially staggered in an axial direction of the cable, the side faces being profiled for cutting through the outer insulation and the end faces trapping the conductive shielding therebetween as taught in Scholtholt to enable the

contact to accept wider cables without risking damages to the insulation displacement connection.

With regard to Claim 8, Applicant's admitted prior art discloses the first and second portions (2) being defined as cutting walls which extend in general transverse relation to the axial direction. See Figs. 1-2.

With regard to Claim 9, Applicant's admitted prior art discloses a second upstanding side edge portion (5) extends on an opposite side forming opposed side edge portions (5), having parallel side faces (side of 2) extending along parallel vertical axes. See Figs. 1-2.

With regard to Claim 10, Applicant's admitted prior art discloses a plurality of opposed side edge portions (5) generally extending along axial lengths of the contact (1).

With regard to Claim 11, Applicant's admitted prior art discloses the contact (1) being generally rectangular in cross-section. See Figs. 1-2.

With regard to Claim 12, Applicant's admitted prior art discloses the at least one side edge portion (5) being positioned on at least end of the contact (1). See Figs. 1-2.

With regard to Claim 13, Applicant's admitted prior art discloses the at least one side edge portion (5) being at both ends of the contact (1). See Figs. 1-2.

With regard to Claim 14, Applicant's admitted prior art discloses the contact (1) being defined by at least two lugs (5) axially spaced apart, wherein the side edge portions (5) extend from the lugs (5). See Figs. 1-2.

Conclusion


6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Odley et al. (U.S. Patent No. 5,836,782), Steiner (U.S. Patent No. 5,441,422), Burke et al. (U.S. Patent No. 6,328,592), Paradis (U.S. Patent No. 4,909,754), and Daoud (U.S. Patent No. 6,086,407) disclose connector having insulation displacement connections with cutting edges.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (703) 308-6253. The examiner can normally be reached on Monday - Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Edwin A. Leon
AU 2833


THO D. TA
PRIMARY EXAMINER

EAL
July 25, 2002